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10/723,775	11/26/2003	Delia Keeskemeti	1004-04005	9671	
	7590 06/21/2007 I & MARCIN, LLP	·	EXAM	EXAMINER	
150 BROADWAY, SUITE 702 NEW YORK, NY 10038			MATTIS,	MATTIS, JASON E	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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## Defice Action Summary Examiner Jason E. Mattis Zo16			Application No.	Applicant(s)				
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2a) This action is FINAL. 2b)⊠ This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 12-15 is/are allowed. 6 Claim(s) 1-11 and 16-25 is/are rejected. 7) Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9	Status							
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5, 7, 8, 11, 19, 20, and 22-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhao et al. (U.S. Publication US 2005/0018683 A1).

With respect to claim 1, Zhao et al. discloses a method of storing addresses in a memory (See the abstract of Zhao et al. for reference to a method). Zhao et al. also discloses identifying a chain of zero having a chain length and chain location bytes in an uncompressed IPv6 address (See page 4 paragraph 50 of Zhao et al. for reference to determining the number of trailing zeros in an IPv6 address, with the determined number being the chain length and the chain location being the end of the address). Zhao et al. further discloses generating a compressed IPv6 address corresponding to the uncompressed IPv6 address by removing the chain of zero bytes from the uncompressed IPv6 address and proving compression information corresponding to the chain length and chain location (See page 3 paragraph 45, page

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5 paragraph 85 and Figures 3 and 5 of Zhao et al. for reference to compressing an IPv6 address by removing the trailing zeros from an uncompressed address and providing compression information indicating the number of removed zeros and the location of the removed zeros).

With respect to claim 2, Zhao et al. discloses the compression information being a single byte containing the chain length and location (See page 3 paragraph 45 and Figure 3 of Zhao et al. for reference to storing compression information in a field 40 that is at most seven bits and contains an indication of a number of zeros removed, which is a chain length, as well as an inherent indication of the location of the removed zeros, which is the end of the address).

With respect to claim 3, Zhao et al. discloses the compression information being a single byte containing the chain location and length of the compressed IPv6 address (See page 3 paragraph 45 and Figure 3 of Zhao et al. for reference to storing compression information in a field 40 that is at most seven bits and contains an indication of a number of zeros removed, which is inherently an indication of the number of bits left in the compressed address, as well as an inherent indication of the location of the removed zeros, which is the end of the address).

With respect to claim 4, Zhao et al. discloses that the single byte is the most significant byte of the compressed IPv6 address (See page 3 paragraph 47 of Zhao et al. for reference to the fields being placed in any order, meaning field 40 may be the most significant byte).

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With respect to claim 5, Zhao et al. discloses that the compression information is included in the compressed IPv6 address (See page 3 paragraph 45 and Figure 3 of Zhao et al. for reference to the compression information fields being included with the compressed address as shown in Figure 3).

With respect to claim 7, Zhao et al. discloses a method of storing addresses in a memory (See the abstract of Zhao et al. for reference to a method). Zhao et al. also discloses determining a chain location and chain length of a chain of zero bytes removed from a compressed IPv6 addressed based on compression information (See page 3 paragraph 45, page 5 paragraph 85 and Figures 3 and 5 of Zhao et al. for reference to determining the number of trailing zeroes removed from a compressed IPv6 address based on compression information). Zhao et al. further discloses comparing pre-chain location bytes of the compressed address to corresponding bytes of an uncompressed address and reporting a result when at least one byte is different, comparing bytes of the compressed address to the chain of zero bytes and reporting a result when at least one byte is non-zero, and comparing postchain location bytes of the compressed address to corresponding bytes of the uncompressed address and reporting the result (See page 5 paragraph 86 and Figure 6 of Zhao et al. for reference to comparing the bytes of a received address to the bytes of stored compressed addresses and reporting a result as to whether the bytes of the address match or don't match the bytes of the compressed addresses).

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With respect to claim 8, Zhao et al. discloses the result being that the uncompressed address is equal to the compressed address (See page 5 paragraph 86 and Figure 6 of Zhao et al. for reference to determining that an address matches a compressed address).

With respect to claim 11, Zhao et al. discloses that the number of pre-chain location bytes may be zero (See page 3 paragraph 45 and Figure 3 of Zhao et al. for reference to storing the number of trailing zeros of a compressed address meaning that if the address is all zeros then there will be no pre-chain location bytes).

With respect to claims 19 and 24, Zhao et al. discloses a method implemented as instructions stored on a computer readable medium (See the abstract and page 6 paragraph 87 of Zhao et al. for reference to a method implemented as computer instructions stored on a computer readable medium). Zhao et al. also discloses receiving an message having an IPv6 destination address and comparing the received address to a compressed address stored in a routing table, receiving forwarding information when the received address matches the compressed address and forwarding the message according to the forwarding information (See page 5 paragraph 86 and Figure 6 of Zhao et al. for reference to receiving a destination address, comparing the address to compressed addresses, receiving forwarding information when the address matches a compressed address, and forwarding the message corresponding the address according to the forwarding information).

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With respect to claim 20, Zhao et al. discloses determining a chain location and chain length of a chain of zero bytes removed from a compressed IPv6 addressed based on compression information (See page 3 paragraph 45, page 5 paragraph 85 and Figures 3 and 5 of Zhao et al. for reference to determining the number of trailing zeroes removed from a compressed IPv6 address based on compression information). Zhao et al. also discloses comparing pre-chain location bytes of the compressed address to corresponding bytes of an uncompressed address and reporting a result when at least one byte is different, comparing bytes of the compressed address to the chain of zero bytes and reporting a result when at least one byte is non-zero, and comparing post-chain location bytes of the compressed address to corresponding bytes of the uncompressed address and reporting the result (See page 5 paragraph 86 and Figure 6 of Zhao et al. for reference to comparing the bytes of a received address to the bytes of stored compressed addresses and reporting a result as to whether the bytes of the address match or don't match the bytes of the compressed addresses).

With respect to claim 22, Zhao et al. discloses comparing the destination address to a plurality of compressed addresses, determining when the destination address matches a compressed address, storing the matched address as a best address and further comparing the destination address to more specific compressed addresses, and receiving forwarding information for the best fit address when the comparisons are completed (See page 5 paragraph 86 and Figure 6 of Zhao et al. for reference to comparing the destination address to compressed addresses,

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finding a match for destination address in the compressed addresses, continuing comparisons with more specific compressed addresses in a routing tree structure, determining the best address based on the comparisons, and receiving forwarding information for the best address).

With respect to claim 23, Zhao et al. discloses that the number of pre-chain location bytes may be zero (See page 3 paragraph 45 and Figure 3 of Zhao et al. for reference to storing the number of trailing zeros of a compressed address meaning that if the address is all zeros then there will be no pre-chain location bytes).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zhao et al.

With respect to claim 6, Zhao et al. discloses all the elements of claim 1, as shown above. Although Zhao et al. does not specifically disclose the reverse process of uncompressing a compressed IPv6 address, using the reverse of the process disclosed

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by Zhao et al. to uncompress a compressed IPv6 address would have been obvious to one of ordinary skill in the art at the time of the invention. Using the reverse of the process disclosed by Zhao to uncompress a compressed IPv6 address has the advantage of allowing the original full IPv6 address to be recovered from a compressed IPv6 address.

5. Claims 9, 10, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhao et al. in view of Dietrich (U.S. Publication US 2003/0193956 A1).

With respect to claims 9, 10, and 21, Zhao et al. does not disclose applying a mask associated with the addresses, using the mask to determine if further comparison is needed, and comparing one byte at a time.

With respect to claims 9, 10, and 21, Dietrich, in the field of communications, discloses applying a mask associated with addresses, using the mask to determine if further comparison is needed, and comparing one byte at a time (See page 3 paragraph 55 to page 5 paragraph 76 and Figures 3-5 of Dietrich for reference to comparing addresses one byte at a time and for reference to applying a mask to the addresses to determine if further comparison of bytes is needed). Applying a mask associated with addresses, using the mask to determine if further comparison is needed, and comparing one byte at a time has the advantage of pipelining the address comparison process such that it is performed in a faster, more efficient manner.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Dietrich, to combine applying a mask

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associated with addresses, using the mask to determine if further comparison is needed, and comparing one byte at a time, as suggested by Dietrich, with the system and method of Zhao et al., with the motivation being to pipeline the address comparison process such that it is performed in a faster, more efficient manner.

6. Claims 16-18 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhao et al. in view of Dunk (U.S. Publication US 2004/0264465 A1).

With respect to claims 16 and 25, Zhao et al. discloses a method implemented as instructions stored on a computer readable medium (See the abstract and page 6 paragraph 87 of Zhao et al. for reference to a method implemented as computer instructions stored on a computer readable medium). Zhao et al. also discloses compressing an uncompressed IPv6 address into a corresponding compressed IPv6 address (See page 3 paragraph 45, page 5 paragraph 85 and Figures 3 and 5 of Zhao et al. for reference to compressing an uncompressed IPv6 address). Zhao et al. does not disclose receiving an OSPF message containing an LSA having an uncompressed IPv6 address and storing the LSA in a link state database.

With respect to claim 18, Zhao et al. does not disclose creating an OSPF routing table based on the link state database.

With respect to claims 16 and 18, Dunk, in the field of communications, discloses receiving an OSPF message containing an LSA having an uncompressed IPv6 address, storing the LSA in a link state database, and creating an OSPF routing table based on the link state database (See page 1 paragraphs 9-10 and page 4

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paragraph 41 of Dunk for reference to receiving OSPF messages containing an LSA having an IPv6 address, storing the LSA, and creating an OSPF routing table based on the stored LSA). Receiving an OSPF message containing an LSA having an uncompressed IPv6 address, storing the LSA in a link state database, and creating an OSPF routing table based on the link state database has the advantage of providing a simple way to distribute and store routing information throughout a routing network.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Dunk, to combine receiving an OSPF message containing an LSA having an uncompressed IPv6 address, storing the LSA in a link state database, and creating an OSPF routing table based on the link state database, as suggested by Dunk, with the system and method of Zhao et al., with the motivation being to provide a simple way to distribute and store routing information throughout a routing network.

With respect to claim 17, Zhao et al. discloses identifying a chain of zero having a chain length and chain location bytes in an uncompressed IPv6 address (See page 4 paragraph 50 of Zhao et al. for reference to determining the number of trailing zeros in an IPv6 address, with the determined number being the chain length and the chain location being the end of the address). Zhao et al. also discloses generating a compressed IPv6 address corresponding to the uncompressed IPv6 address by removing the chain of zero bytes from the uncompressed IPv6 address and proving compression information corresponding to the chain length and chain location (See page 3 paragraph 45, page 5 paragraph 85 and Figures 3 and 5 of Zhao et al.

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for reference to compressing an IPv6 address by removing the trailing zeros from

an uncompressed address and providing compression information indicating the

number of removed zeros and the location of the removed zeros).

Allowable Subject Matter

- 7. Claims 12-15 are allowed.
- 8. The following is a statement of reasons for the indication of allowable subject matter: Claim 12 is allowable since none of the prior art of record discloses or renders obvious comparing two compressed IPv6 addresses as claimed. Claims 13-15 are allowable since they depend on allowable claim 12.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason E. Mattis whose telephone number is (571) 272-3154. The examiner can normally be reached on M-F 8AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jem

HUY D. VU

SUPERVISORY PATENT EXAMINER
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